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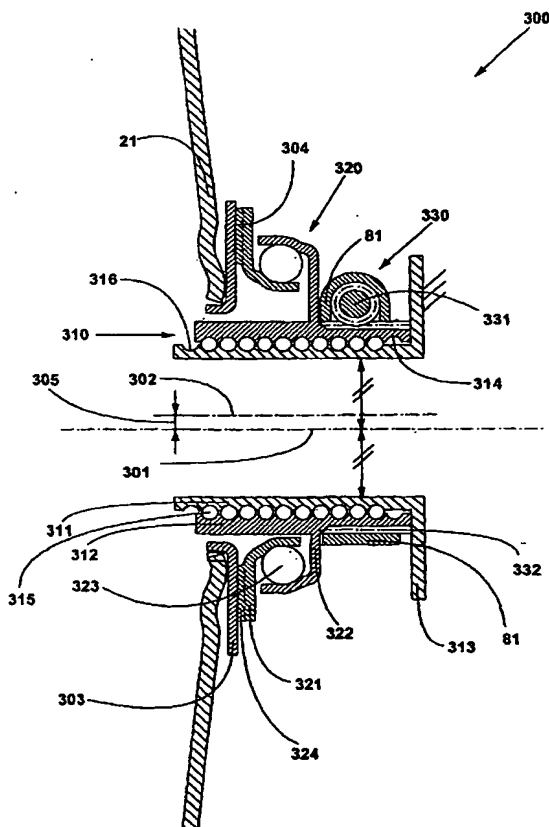
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(54) Title: COAXIAL FRICTION CLUTCH ACTUATOR SYSTEM



(57) Abstract: A controlled actuator system (300, 400, 500, 600) for the actuation of a friction clutch (20) comprising a screw drive assembly (310, 410, 510, 610) coaxial with an axis (301, 401, 501, 601) of the clutch (20) composed of a collar (312, 412, 512, 612) and a screw (311, 411, 511, 611) fastened to a gearbox (11). The controlled actuator system (300, 400, 500, 600) having a friction plate (303, 403, 503, 603) rotatably fastened to control fingers (21) of the clutch (20) and coaxial with the clutch axis (301, 401, 501, 601) and a ball bearing assembly (320, 420, 520, 620) with a first race (322, 422, 522, 622) fastened to the collar (312, 412, 512, 612) and the axis of the bearing assembly (320, 420, 520, 620) being offset from the axis (301, 401, 501, 601) of the clutch (20). The collar (312, 412, 512, 612) is rotated by a motor (80). The friction plate (303, 403, 503, 603) and a second race (321, 421, 521, 621) of the bearing assembly (320, 420, 520, 620) are in frictional engagement.



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